

GASKET MATERIAL FOR HIGH TEMPERATURE AND MANUFACTURE THEREOF

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Abstract

PURPOSE: To provide a gasket material, which has sufficient sealing property and durability even at not lower than 1000 deg.C, and for which no limit is set for the atmosphere in which it is to be used by mixing a chemically stable ceramic fiber and a glass of high melting point together to provide a sheet form.

CONSTITUTION: As ceramic fiber, an oxide ceramic fiber of such as alumina, zirconia, or alumina silica is used. When a gasket is to be used in a reduced atmosphere, non-oxide ceramic such as silicon carbide or silicon nitride is used. As glass powder of high melting point, the following materials are used as indicated by wt. %: SiO₂: 50%, BaO: 10%, Al₂O₃: 5%, CaO: 10%, ZrO₂: 5%, SrO: 20%, all of high melting point of 950-980 deg.C. The mixture of alumina fiber 100g, glass powder of high melting point 50g, water 15kg, binder (PVA) 15g, and a dispersant (acrylic oligomer ammonium salt) 1.5g, is used and is formed into sheet by using a pressure filtration device, and is dried and press-formed at 250 deg.C by a hot press, and a sheet forming a gasket material for high temperature is thus provided.

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